

**Notice of Allowability**

Application No.

10/694,372

Examiner

Matt Luby

Applicant(s)

TURNER ET AL

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the application filed 10/27/03.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☒ The drawings filed on 27 October 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 10/27/03
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

2. The application has been amended as follows:

On page 5, line 17 the number "65" has been deleted (since this was not shown in any drawing); and at line 30 the number "80" has been deleted (since this, also, was not shown in any drawing).

In claim 10, line 11 the word "caparison" has been changed to --comparison--.

In claim 20, line 15 the word "caparison" has been changed to --comparison--.

3. The following is an examiner's statement of reasons for allowance: The prior art fails to disclose a steering system for a vehicle, including a steering angle defined, at least in part, by an input from an operator; at least one sensor adapted to monitor the roll of a vehicle body and a height of the center of gravity of the vehicle from a given point; and a controller in communication with the sensor and connected to a motor, the controller adapted to adjust the supplementation of the input to the steering angle from the operator based upon the amount of roll of the vehicle body as monitored by the sensor, and adapted to supplement the steering angle when the amount of roll of the vehicle body as monitored by the sensor exceeds calculated maximum value defined at least in part, by the height of the center of gravity of the vehicle, thereby reducing the

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amount of roll of the vehicle body. The prior art also fails to disclose a method of controlling roll over of a motor vehicle, comprising the steps of: monitoring an actual amount of roll of a vehicle body; monitoring a height of the center gravity of the vehicle; determining a maximum roll value based, at least in part, on the height of the center of gravity of the vehicle; comparing the actual amount of roll of the vehicle body to the maximum roll value; and controlling a steering angle of a wheel of the vehicle based on the comparison of the actual amount of roll of the vehicle body to the maximum roll value. The prior art further fails to disclose a method of controlling roll over of a motor vehicle, comprising the steps of: determining an actual amount of roll of a vehicle body by measuring the relative difference between the deflection of a suspension between two sides of the vehicle; determining a height of the center gravity of the vehicle by monitoring the weight of the vehicle by measuring the relative height of the suspension of the vehicle relative to a given point; determining a maximum roll value based, at least in part, on the height of the center of gravity of the vehicle; comparing the actual amount of roll of the vehicle body to the maximum roll value; and controlling a steering angle of a wheel of the vehicle based on the comparison of the actual amount of roll of the vehicle body to the maximum roll value, thereby reducing the actual amount of roll of the vehicle body.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matt Luby whose telephone number is (703) 305-0441. The examiner can normally be reached on Monday-Friday, 9:30 a.m. to 6:00 p.m..
6. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lesley Morris can be reached on (703) 308-0629. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.
7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Matt Luby  
Examiner  
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M.I.  
December 09, 2004

  
**LESLEY D. MORRIS**  
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